



EXPRESS MAIL NO.: EV 452 773 531 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Artavanis-Tsakonas *et al.*

Confirmation No.: 8386

Application No.: 10/781,059

Group Art Unit: 1646

Filed: February 17, 2004

Examiner: To be assigned

For: **ACTIVATED FORMS OF NOTCH
AND METHODS BASED THEREON**

Attorney Docket No.: 7326-132

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.56 AND §1.97**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 and § 1.97 to inform the Patent Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of any claim of the application, Attorneys for Applicants hereby invite the Examiner's attention to the references A01-A26, B01-B14 and C01-C78 listed on the attached revised form PTO 1449 entitled "List of References Cited by Applicant."

This application is a continuation of United States Application Serial No. 09/121,457 filed July 23, 1998, now U.S. Patent No. 6,692,919; which is a continuation-in-part of United States Application Serial No. 08/899,232 filed July 23, 1997, now U.S. Patent No. 6,436,650. Pursuant to 37 C.F.R. § 1.98(d), copies of the listed references A01-A14, B01-B13 and C01-C78 have not been included herein as such copies are available in parent applications Serial No. 08/899,232 filed July 23, 1997 and Serial No. 09/121,457 filed July 23, 1998. Pursuant to 37 C.F.R. § 1.98(a)(2)(i), copies of the cited U.S. Patents and U.S. Patent Application Publications A15-A25 are not being submitted herewith. Copies of A26 and B14 are submitted herewith.

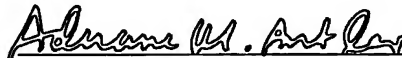
Identification of the listed references is not meant to be construed as an admission of Applicants or Attorneys for Applicants that such references are available as "prior art" against the subject application.

Applicants respectfully request that the Examiner review the listed references and that the references be made of record in the file history of the application.

Pursuant to 37 C.F.R. § 1.97(b)(3), since Applicants believe that this Information Disclosure Statement is being submitted prior to the first Office Action on merits, no fee is believed due. However, should the Patent and Trademark Office determine otherwise, please charge any required fee to Jones Day Deposit Account No. 50-3013. A duplicate of this sheet is enclosed for accounting purposes.

Respectfully submitted,

Date: November 17, 2004


Adriane M. Antler

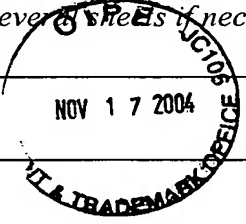
32,605
(Reg. No.)

By:


William J. Thomann

40,203
(Reg. No.)

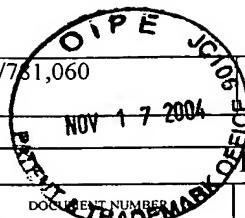
JONES DAY
222 East 41st Street
New York, New York 10017-6702
(212) 326-3921

LIST OF REFERENCES CITED BY APPLICANTS (Use several sheets if necessary)	ATTY. DOCKET NO. 7326-132	APPLICATION NO. 10/781,059
		APPLICANT Artavanis-Tsakonas et al.
	FILING DATE February 17, 2004	GROUP 1646

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A01	5,789,195	9/4/98	Artavanis-Tsakonas et al.			
	A02	5,780,300	7/14/98	Artavanis-Tsakonas et al.			
	A03	5,750,652	5/12/98	Artavanis-Tsakonas et al.			
	A04	5,648,464	7/15/97	Artavanis-Tsakonas et al.			
	A05	5,637,471	6/10/97	Artavanis-Tsakonas et al.			
	A06	5,786,158	7/28/98	Artavanis-Tsakonas et al.			
	A07	08/561,963		Artavanis-Tsakonas et al.			11/22/95
	A08	09/043,847		Artavanis-Tsakonas et al.			3/27/98
	A09	08/937,132		Artavanis-Tsakonas et al.			9/24/97
	A10	08/947,956		Artavanis-Tsakonas et al.			10/9/97
	A11	09/113,824		Artavanis-Tsakonas et al.			7/10/98
	A12	09/121,457		Artavanis-Tsakonas et al.			7/23/98
	A13	09/113,399		Artavanis-Tsakonas et al.			7/10/98
	A14	60/092,513		Artavanis-Tsakonas et al.			7/13/98
	A15	5,849,869	12/15/98	Artavanis-Tsakonas et al.			11/28/94
	A16	5,856,441	1/5/99	Artavanis-Tsakonas et al.			11/28/94
	A17	5,869,282	2/9/99	Ish-Horowicz et al.			3/7/95
	A18	6,083,904	7/4/00	Artavanis-Tsakonas et al.			9/22/95
	A19	6,004,924	12/21/99	Ish-Horowicz et al.			3/6/96
	A20	6,262,025	7/17/01	Artavanis-Tsakonas et al.			12/22/97
	A21	6,090,922	7/18/00	Artavanis-Tsakonas et al.			7/11/97
	A22	6,149,902	11/21/00	Artavanis-Tsakonas et al.			7/10/98
	A23	6,703,489	3/9/04	Ish-Horowicz , et al.			
	A24	2003-0073620 A1	4/17/03	Ish-Horowicz, et al.			2/15/01
	A25	6,783,956	8/31/04	Ish-Horowicz , et al.			

A26	10/781,060	Artavanis-Tsakonas et al.		2/17/2004
-----	------------	---------------------------	--	-----------



FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	B01	WO 97/18822	5/29/97	PCT				
	B02	WO 97/11716	4/3/97	PCT				
	B03	WO 97/01571	1/16/97	PCT				
	B04	WO 96/27610	9/12/96	PCT				
	B05	WO 95/19779	7/27/95	PCT				
	B06	WO 94/11401	5/26/94	PCT				
	B07	WO 94/07474	4/14/94	PCT				
	B08	WO 94/07522	4/14/94	PCT				
	B09	WO 94/08037	4/14/94	PCT				
	B10	WO 93/20242	10/14/93	PCT				
	B11	WO 93/12141	6/24/93	PCT				
	B12	WO 92/19734	11/12/92	PCT				
	B13	WO 97/19172	05/29/97	PCT				
	B14	WO 00/02897	1/20/00	PCT				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)	
C01	Adams et al., 1993, "3,400 new expressed sequence tags identify diversity of transcripts in human brain", Nature Genetics 4:256-267
C02	Ahmad et al., 1995, "Involvement of Notch-1 in mammalian retinal neurogenesis: association of Notch-1 activity with both immature and terminally differentiation cells", Mechanisms of Development 53:78-85
C03	Artavanis-Tsakonas et al., 1995, "Notch signaling", Science 268:255-232
C04	Aster et al., 1994, "Functional analysis of the Tan-1 gene, a human homolog of <i>drosophila notch</i> ", Cold Spring Harbor Symposia on Quantitative Biology 59:125-136
C05	Baker & Schubiger, 1996, "Autonomous and non-autonomous Notch functions for embryonic muscle and epidermis development in <i>drosophila</i> ", Development 122:617-626
C06	Bierkamp et al., 1993, "A zebrafish homologue of the <i>Drosophila</i> neurogenic gene <i>Notch</i> and its pattern of transcription during early embryogenesis", Mech. Dev. 43:87-100
C07	Blaumueller & Artavanis-Tsakonas, 1997, "Comparative aspects of notch signalling in lower and higher eukaryotes", Perp. on Dev. Neurobiol. 4:325-343
C08	Blaumueller et al., 1997, Cell 90:281-291; Intracellular Cleavage of Notch Leads to a Heterodimeric Receptor on the Plasma Membrane
C09	Brou et al., 1994, "Inhibition of the DNA-binding activity of <i>Drosophila</i> suppressor of hairless and its human homolog, KBF2/RBP-Jκ, by direct protein-protein interaction with <i>drosophila</i> hairless", Genes Dev. 8:2491
C10	Coffman et al., 1990, " <i>Xotch</i> , the xenopus homolog of <i>drosophila notch</i> ", Science 249:1438-1441
C11	Coffman et al., 1993, "Expression of an extracellular deletion of <i>Xotch</i> diverts fate in <i>Xenopus</i> embryos", Cell 73:659
C12	Delidakis et al., 1991, "Two genetically and molecularly distinct functions involved in early neurogenesis reside within the enhancer of <i>split</i> locus of <i>drosophila melanogaster</i> ", Genetics 129:803
C13	Ellison et al., 1991, " <i>TAN-1</i> , the human homolog of the <i>drosophila notch</i> gene, is broken by chromosomal translocations in T lymphoblastic neoplasms", Cell 66:649-661
C14	Fehon et al., 1990, "Molecular interactions between the protein products of the neurogenic loci <i>notch</i> and <i>delta</i> , two EGF-homologous genes in <i>drosophila</i> ", Cell 61:523-534
C15	Fleming et al., 1997, Trends in Cell Biology 7:437-441; The NOTCH Receptor and its Ligands
C16	Fortini & Artavanis-Tsakonas, 1994, " <i>Notch</i> : neurogenesis is only part of the picture", Cell 75:1245-1247
C17	Fortini & Artavanis-Tsakonas, 1994, "The suppressor of hairless protein participates in notch receptor signalling", Cell 79:273-282
C18	Fortini et al., 1993, "An activated Notch receptor blocks cell-fate commitment in the developing <i>drosophila</i> eye", Nature 365:555-557
C19	Foster, 1975, "Negative complementation at the notch locus of <i>drosophila melanogaster</i> ", Genetics 81:99-120

C20	Franco del Amo et al., 1992, "Expression pattern of <i>Motch</i> , a mouse homolog of <i>drosophila notch</i> , suggests an important role in early postimplantation mouse development", <i>Development</i> <u>115</u> :737-744
C21	Genhring W., 1973, In genetic mechanisms of development:the 31st symposium of the society for developmental biology, ed by Ruddle F, New York: Academic Press Inc.:pp.103-125
C22	Greenwald, 1994, "Structure/function studies of lin-12/notch proteins", <i>Current Opinions in Genetics and Development</i> <u>4</u> :556-562
C23	Heitzler and Simpson, 1991, "The choice of cell fate in the epidermis of <i>drosophila</i> ", <i>Cell</i> <u>64</u> :1083-1092
C24	Henrique et al., 1995, "Expression of a <i>delta</i> homologue in prospective neurons in the chick", <i>Nature</i> <u>375</u> :787-790
C25	Hoppe & Greenspan, 1990, "The <i>notch</i> locus of <i>drosophila</i> is required in epidermal cells for development", <i>Dev.</i> <u>109</u> :875-885
C26	Horvitz et al., 1991, "Multiple intercellular signalling systems control the development of the <i>Caenorhabditis elegans</i> vulva", <i>Nature</i> <u>351</u> :535-541
C27	Jan et al., 1993, "Functional gene cassettes in development", <i>PNAS USA</i> <u>90</u> :8305-8307
C28	Jennings et al., 1994, "The notch signalling pathway is required for enhancer of split bHLH protein expression during neurogenesis in the <i>Drosophila</i> embryo", <i>Development</i> <u>120</u> :3537-3548
C29	Johansen et al., 1989, <i>J. Cell. Biol.</i> <u>109</u> :2427-2440; The Notch Gene Product is a Glycoprotein Expressed on the Outer Surface of Both Epidermal and Neuronal Precursor Cells during <i>Drosophila</i> Development
C30	Joutel et al., 1996, "Notch3 mutations in CADASIL, a hereditary adult-onset condition causing stroke and dementia", <i>Nature</i> <u>383</u> :707-711
C31	Knust et al., 1992, "Seven Genes of the <i>Enhancer of split</i> complex of <i>Drosophila Melanogaster</i> encode helix-loop-helix proteins", <i>Genetics</i> <u>132</u> :505-518
C32	Kooh et al., 1993, "Implications of dynamic patterns of Delta and Notch expression for cellular interactions during <i>drosophila</i> development", <i>Development</i> <u>117</u> :493-507
C33	Kopan et al., 1993, "Mouse Notch: expression in hair follicles correlates with cell fate determination", <i>J. Cell. Biol.</i> <u>121</u> :631-641
C34	Kopan et al., 1994, "The intracellular domain of mouse Notch" a constitutively activated repressor of myogenesis directed at the basic helix-loop-helix region of MyoD", <i>Development</i> <u>120</u> :2385-2396
C35	Kopan et al., 1996, "Signal transduction by activated mNotch: importance of proteolytic processing and its regulation by the extracellular domain", <i>PNAS USA</i> <u>93</u> (4):1683-1688
C36	Lardelli et al., 1993, " <i>Motch A</i> and <i>motch B</i> -two mouse <i>Notch</i> homologues coexpressed in a wide variety of tissues", <i>Exp. Cell. Res.</i> <u>204</u> :364-372
C37	Lardelli et al., 1994, "The novel <i>Notch</i> homologue mouse <i>Notch 3</i> lacks specific epidermal growth factor-repeats and is expressed in proliferating neuroepithelium", <i>Mech. Dev.</i> <u>46</u> :123-136
C38	Larsson et al., 1994, "The human NOTCH1, 2, and 3 genes are located at chromosome positions 9q34, 1p13-p11, and 19p13.2-p13.1 in regions of neoplasia-associated translocation", <i>Genomics</i> <u>24</u> :253-258
C39	Li et al., 1997, "Alagille syndrome is caused by mutations in human <i>Jaggeed1</i> , which encodes a ligand for Notch 1", <i>16</i> :243-251
C40	Lieber et al., 1993, "Antineurogenic phenotypes induced by truncated Notch proteins indicate a role in signal transduction and may point to a novel function for Notch in nuclei", <i>Genes and Development</i> <u>7</u> :1949-1965
C41	Lindsell et al., 1995, <i>Cell</i> <u>80</u> :909-917
C42	Logeat et al., 1998, "The notch1 receptor is cleaved constitutively by a furin-like convertase", <i>PNAS</i> <u>95</u> :8108-8112
C43	Lyman et al., 1993, "Further evidence for function of the <i>drosophila</i> notch protein as a transmembrane receptor", <i>PNAS USA</i> <u>90</u> :10395-10399
C44	Mango et al., 1991, "Carboxy-terminal truncation activates <i>glp-1</i> protein to specify vulval fates in <i>Caenorhabditis elegans</i> ", <i>Nature</i> <u>352</u> :811-815
C45	Mango et al., 1994, "Two maternal genes, <i>apx-1</i> and <i>pie-1</i> are required to distinguish the fates equivalent blastomeres in the early <i>Caenorhabditis elegans</i> embryo", <i>Development</i> <u>120</u> :2305-2315
C46	Markopoulou et al., 1990, "Developmental analysis of the facets, a group of intronic mutations at the <i>notch</i> locus of <i>drosophila melanogaster</i> that affect postembryonic development", <i>J. Exper. Zool.</i> <u>27</u> :23-27
C47	Matsuno et al., 1995, "Deltex acts as a positive regulator of Notch signalling through interactions with the Notch ankyrin repeats", <i>Development</i> <u>121</u> :2633-2644
C48	Mello et al., 1994, "The maternal genes <i>apx-1</i> and <i>glp-1</i> and establishment of Dorsal-ventral polarity in the early <i>C.elegans</i> embryo", <i>Cell</i> <u>77</u> :95-106
C49	Nusse & Varmus, 1992, " <i>Wnt</i> genes", <i>69</i> (7):1073-87
C50	Nye et al., 1994, <i>Development</i> <u>120</u> :2421-2430

C51	Oda et al., 1997, "Mutations in the Human <i>Jagged1</i> Gene are Responsible for Alagille Syndrome", <i>Nature Genetics</i> 16:235-242
C52	Pui et al., 1999, "Notch1 Expression in Early Lymphopoiesis Influences B Versus T Lineage Determination", <i>Immunity</i> 11:299-308
C53	Qi et al., 1999, <i>Science</i> 283:91-94
C54	Reaume et al., 1992, "Expression Analysis of a <i>Notch</i> Homologue in the Mouse Embryo", <i>Dev. Biol.</i> 154:377-387
C55	Rebay et al., 1991, "Specific EGF repeats of Notch mediate interactions with delta and serrate: implications for notch as a multi-functional receptor", <i>Cell</i> 67:687-699
C56	Rebay et al., 1993, "Specific truncations of <i>Drosophila</i> Notch define dominant activated and dominant negative forms of the receptor", <i>Cell</i> 74(2):319-329
C57	Robey et al., 1996, "An Activated Form of Notch Influences the Choice between CD4 and CD8 T Cell Lineages", <i>Cell</i> 87:483-492
C58	Roehl et al., 1993, "Control of cell fate in <i>C.elegans</i> by a GLP-1 peptide consisting primarily of ankyrin repeats", <i>Nature</i> 364:632
C59	Schroeter et al., 1998, "Notch-1 signalling requires ligand-induced proteolytic release of intracellular domain", <i>Nature</i> 393:382-386
C60	Sestan et al., 1999, <i>Science</i> 286:741-746
C61	Simske et al., 1995, <i>Nature</i> 375:142-145
C62	Smoller et al., 1990, "The <i>drosophila</i> neurogenic locus <i>mastermind</i> encodes a nuclear protein unusually rich in amino acid homopolymers", <i>Genes Dev.</i> 4:1688
C63	Stern & Tokunaga, 1968, "Autonomous pleiotropy in <i>drosophila</i> ", <i>PNAS USA</i> 60:1252-1259
C64	Sternberg, 1993, "Falling off the knife edge", <i>Current Biology</i> 3:763-765
C65	Stifani et al., 1992, "Human homologs of a <i>drosophila</i> <i>enhancer of split</i> gene product define a novel family of nuclear proteins" <i>Nature Genetics</i> 2:119-127
C66	Struhl & Basler, 1993, "Organizing activity of Wingless Protein in <i>Drosophila</i> ", <i>Cell</i> 74:527-540
C67	Struhl et al., 1993, "Intrinsic activity of the Lin-12 and notch intracellular domains in vivo", <i>Cell</i> 74:331
C68	Sun & Artavanis-Tsakonas, 1996, "The intracellular deletions of DELTA and SERRATE define dominant negative forms if the <i>drosophila</i> notch ligands", <i>Development</i> 122:2465-2474
C69	Swiatek et al., 1994, " <i>Notch1</i> is essential for postimplantation development in mice", <i>Genes Dev.</i> 8:707
C70	Technau et al., 1987, "Cell autonomy of expression of neurogenic genes <i>drosophila melanogaster</i> " <i>PNAS USA</i> 84:4500-4504
C71	Washburn et al., 1997, "Notch Activity Influences the $\alpha\beta$ versus $\gamma\delta$ T Cell Lineage Decision", <i>Cell</i> 88:833-843
C72	Weinmaster et al., 1991, "A homolog of <i>drosophila</i> <i>Notch</i> expressed during mammalian development", <i>Development</i> 113:199-205
C73	Weinmaster et al., 1992, " <i>Notch2</i> : a second mammalian Notch gene", <i>Development</i> 116:931-941
C74	Wesley and Saez, 2000, <i>J. Cell Biol.</i> 149(3):683-696
C75	Wesley, 1999, <i>Mol. Cell Biol.</i> 19(8):5743-5758
C76	Wharton et al., 1985, "Nucleotide sequence from the neurogenic locus Notch implies a gene product that shares homology with proteins containing EGF-like repeats", <i>Cell</i> 43:567-581
C77	Xu et al., 1990, "The <i>notch</i> locus and the genetic circuitry involved in early <i>drosophila</i> neurogenesis", <i>Genes Dev.</i> 4:464-475
C78	Zagouras et al., 1995, "Alterations in Notch signalling in neoplastic lesions of the human cervix", <i>PNAS USA</i> 92:6414-6418
EXAMINER	
DATE CONSIDERED	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.